

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/000216

A. CLASSIFICATION OF SUBJECT MATTER		
IPC7 B01D 63/04, C02F 1/44		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC7 B01D 63/04		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions since 1975		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKIPASS(KPA, PAJ, FPD, USPATFULL) in KIPO		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5944997 (Zenon Environmental Inc.) 31 August 1999 see Figure 2 & 4, Column 7 line 36 ~ line 48	1~4, 9
Y	US 5248424 (Zenon Environmental Inc.) 28 September 1993 see Figure 9 & 10, Column 23 line 1 ~ line 62	1~4, 9
Y	JP 05123543 (Kubota Corp.) 21 May 1993 see whole document	10, 11
Y	US 2002/0153299 (Zenon Environmental Inc.) 24 October 2002 see Figure 7A, 7B, 10, 11, page 11 [0112] ~ [0113], page 13 [0131] ~ page 15 [0143]	10, 11
A	JP 07275665 (Mitsubishi Rayon Co. Ltd.) 24 October 1995 see whole document	1~9
A	JP 05285349 (Nitto Denko Corp.) 02 November 1993 see whole document	10, 11
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.		<input checked="" type="checkbox"/> See patent family annex.
<p>* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </p>		<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </p>
Date of the actual completion of the international search 29 JULY 2004 (29.07.2004)	Date of mailing of the international search report 30 JULY 2004 (30.07.2004)	
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer KANG, SANG YOON Telephone No. 82-42-481-8153	



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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5783983 (Zenon Environmental Inc.) 21 July 1998 see Figure 9, Column 16 line 37 ~ Column 17 line 5	10, 11

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-5944997-A	31-08-1999	NONE	
US-5248424-A	28-09-1993	AU-664935-B2 MX-9307193-A1 WO-9411094-A1 PL-173715-B1 CZ-9501202-A3 KR-177263-B1 DE-69324034-T2 EP-669851-B1 CA-2149414-C HU-221925-B1	07-12-1995 29-07-1994 26-05-1994 30-04-1998 17-01-1996 20-03-1999 18-11-1999 17-03-1999 23-05-2000 28-02-2003
JP-05123543-A	21-05-1993	NONE	
US-20020153299-A	24-10-2002	NONE	
JP-07275665-A	24-10-1995	NONE	
JP-05285349-A	02-11-1993	NONE	
US-5783983-A	21-07-1998	AU-6652896-A1 CA-2227692-AA WO-9706880-A2 EG-21552-A EP-846023-B1 DE-69624492-T2	12-03-1997 27-02-1997 27-02-1997 31-12-2001 23-10-2002 26-06-2003